

OFFICE OF THE CITY MANAGER NO. LTC # 093-2013

## LETTER TO COMMISSION

TO:

Mayor Matti Herrera Bower and Members of the City Commission

FROM:

Kathie G. Brooks, Interim City Manager

DATE:

March 21, 2013

SUBJECT: Actuarial Valuation Reports for the City's Two Pension Plans, Miami Beach

Employees Retirement Plan and the City Pension Fund for Firefighters and

Police Officers in the City of Miami Beach

The purpose of this Letter to the Commission (LTC) is to provide the Mayor and the City Commission with the City's Annual Required Contributions payable October 1, 2013, for both of the City's pension plans. The actuary for the City Pension Fund for Firefighters and Police Officers in the City of Miami Beach (Fire and Police Pension Plan), presented a draft FY2013/2014 Actuarial Valuation Report during the last Fire and Police Pension Board meeting. This report will be made available once approved by the Fire and Police Pension Board. Based on the draft valuation, the preliminary estimate for the City's Annual Required Contribution (ARC) towards the Fire and Police Pension Plan payable October 1, 2013 is \$41.51 million, an increase of approximately \$2.14 million from the current fiscal year.

The FY2013/2014 Actuarial Valuation Report for the Miami Beach Employees' Retirement Plan was adopted during the March 12, 2013, Pension Board meeting (Attached). Based on the results of the valuation, the City's Annual Required Contribution (ARC) towards the Miami Beach Employees' Retirement Plan payable October 1, 2013 is \$26.2 million, an increase of \$4 million.

Attached, please find a summary of valuation data for both of the City's pension plans for the past five years. Should you require additional information, please do not hesitate to contact Carla Gomez, Human Resources Assistant Director or myself.

Thank you.

KGB/CMG Attachments

		4	Police & Fire				General Employees	oloyees	
					Unfunded				Unfunded
Valuation	ARC Payable	Actuarial	Projected		Accrued	Actuarial			Accrued
	October 1 of Fiscal Year	Required City Contribution	Pensionable Payroll	% of Payroll	Liability (UAAL)	Required City Contribution	Covered Payroll	% of Payroll	Liability (UAAL)
2008	2009-2010	\$23,283,269	\$23,283,269 \$ 53,153,934	43.80	43.80 \$176,368,132 \$17,137,394	\$17,137,394	\$68,009,550	25.20	25.20 \$125,016,843
2009	2010-2011	\$35,243,726	\$35,243,726 \$ 54,154,885	65.08	65.08 \$266,792,988 \$14,474,678	\$14,474,678	\$70,097,549	20.65	20.65 \$148,766,860
2010	2011-2012	\$36,175,910	\$49,718,966		72.76 \$291,931,506 * \$17,583,191	* \$17,583,191	\$68,844,264	25.54	25.54 \$176,796,453
2011	2012-2013	\$39,370,000	\$49,186,724		80.04 \$339,297,448 \$21,222,051	\$21,222,051	\$66,346,904	31.99	31.99 \$205,827,133
2012**	2013-2014**	\$41,510,000	\$46,313,650		89.62 \$382,000,000 \$26,212,015	\$26,212,015	\$65,053,945	40.29	40.29 \$215,987,733

\*Amount was reduced by \$466,878 due to City overpayment in FY10/11

<sup>\*\*</sup> Police and Fire Estimated Projections as Valuation has not been adopted by the Board



CITY OF MIAMI BEACH EMPLOYEES' RETIREMENT PLAN ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2012

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2014



March 11, 2013

Board of Trustees City of Miami Beach Employees' Retirement Plan Miami Beach, Florida

Dear Board Members:

The results of the October 1, 2012 Actuarial Valuation of the City of Miami Beach Employees' Retirement Plan are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement Plan and those designated or approved by the Board. This report may be provided to parties other than the Retirement Plan only in its entirety and only with the permission of the Board.

The purpose of the valuation is to measure the Plan's funding progress, to determine the employer contribution rate for the fiscal years ending September 30, 2014 and to determine the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 25.

This report should not be relied on for any purpose other than the purpose described above.

The findings in this report are based on data or other information through September 30, 2012. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

The valuation was based upon information furnished by the City concerning Plan benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by the City.

This report was prepared using certain assumptions prescribed by the Board as described in Section B.

The undersigned actuaries are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Retirement Plan as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

This actuarial valuation and/or cost determination was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate. In my opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

By Molessa R. Algayer MAAA, FOA

Enrolled Actuary No. 11-06467

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Enrolled Actuary No. 11-06599

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# SECTION A DISCUSSION OF VALUATION RESULTS

#### DISCUSSION OF VALUATION RESULTS

## **Comparison of Required Employer Contributions**

A comparison of the required employer contribution developed in this and the last actuarial valuation is shown below.

	_	Red	quired City Contrib	ution				
			% of Non-DROP	% of Total		Non-DROP		Total
		Amount	Payroll	Payroll	(	Covered Payroll	C	overed Payroll
For FYE 9/30/14 Based on 10/1/12 Valuation	\$	26,212,015	40.29 %	37.56 %	\$	65,053,945	\$	69,782,689
For FYE 9/30/13 Based on 10/1/11 Valuation		21,222,051	31.99 %	29.84 %	\$	66,346,904 \$		71,127,701
Increase (Decrease)		4,989,964	8.30	7.72		(1,292,959)		(1,345,012)

The contribution has been adjusted for interest on the basis that the employer contribution is made in a single payment on the first day of the fiscal year. The actual employer contribution for the year ending September 30, 2012 was \$16,312,068 plus \$1,271,123 of prepaid employer contributions for a total of \$17,583,191. The minimum required contribution was \$17,583,191.

## **Revisions in Benefits**

There have been no revisions in benefits since the last valuation.

## Revisions in Actuarial Assumptions and Methods

The investment return assumption was reduced from 8.15% last year to 8.00% this year.

The Actuarial Standard of Practice (ASOP) with regard to the mortality assumption has recently been revised. ASOP No. 35 Disclosure Section 4.1.1 now states "The disclosure of the mortality assumption should contain sufficient detail to permit another qualified actuary to understand the provision made for future mortality improvement. If the actuary assumes zero mortality improvement after the measurement date, the actuary should state that no provision was made for future mortality improvement." The mortality table used was the RP-2000 Combined Healthy Participant Mortality Tables for males and females projected to the year 2010 using Scale AA. There is no provision for future mortality improvements after 2010. We recommend that the mortality assumption be revised to include a margin for



mortality improvements after 2010. Detail on this assumption can be found in the Actuarial Assumptions and Cost Method section.

### **Actuarial Experience**

There was a net actuarial loss of \$23,859,099 for the year which means actual experience was less favorable than expected. The actuarial loss was primarily due to lower than expected recognized return on investments, and was partially offset by gains due to lower salary increases than expected. The return on the Actuarial Value of Assets was 2.1% and the return on the Market Value of Assets was 20.5%. The actuarial loss translates into an increase in the employer contribution equal to 3.31% of non-DROP payroll.

### **Funded Ratio**

The funded ratio this year is 66.1% compared to 70.7% last year. This year's ratio was 67.2% before the assumption change described above.

The funded ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

## **Analysis of Change in Employer Contribution**

The components of change in the required employer contribution as a percent of non-DROP payroll are as follows:

Contribution rate last year	31.99 %
Change in assumptions/methods	1.66
Payment on unfunded liability	3.38
Change in employer normal cost rate	(0.19)
Experience gain/loss	3.31
Adjustment due to prepaid contribution	0.12
Change in administrative expense	0.02
Contribution rate this year	40.29 %

#### **Asset Values**

It is important to keep in mind that under the asset smoothing method, the difference between actual and expected return is recognized over five years. As of September 30, 2012 the market value of assets exceeded the actuarial value by \$2,071,601. Once all the gains and losses through September 30, 2012 are fully recognized in the actuarial asset values, the contribution rate will decrease by roughly 0.3% of non-DROP payroll unless there are further gains or losses.

If we were not using an asset smoothing method, the City contribution rate would have been 40.01% and the funded ratio would have been 66.4%.

## **Projections of Required Contributions and Funded Ratio**

The following three pages show the estimated City contributions and funded ratios over the next ten years, and a projection of the unfunded accrued liability and amortization payments over the next thirty years. The projections are based on these assumptions:

- An 8.0% return on market value of assets for 2013 and for each year after.
- Cash flow remains constant
- No future gains or losses other than the recognition of prior investment experience
- 3% payroll growth

The projections reflect the expiration of amortization bases. For example, for the 2013 valuation, there will be an increase in the amortization payments on the unfunded accrued liability in the amount of \$1,142,872. In 2014, the amortization payments will increase by \$1,194,337. In 2015, the amortization payments will increase by \$502,225. In 2016, the amortization payments will decrease by \$1,323,663.

## Conclusion

The remainder of this Report includes detailed actuarial valuation results, financial information, miscellaneous information and statistics, and a summary of plan provisions.



## 10-Year Projection of Annual Required Contribution (ARC)

Total ARC
Current Assumptions

Fiscal Year Ending 9/30	A	Dollar mount ousands)	% of Payroll	
2014	\$	26,212	40.29	%
2015		28,264	42.18	
2016		29,454	42.68	
2017		29,947	42.13	
2018		27,761	37.91	
2019		27,669	36.69	
2020		27,573	35.50	
2021		27,484	34.35	
2022		27,378	33.22	
2023		27,274	32.13	
2024		27,163	31.07	

## **Assumptions**

8.0% return on Market Value of Assets
No gains or losses other than recognition
of prior investment experience
Constant cash flow
3.0% payroll growth

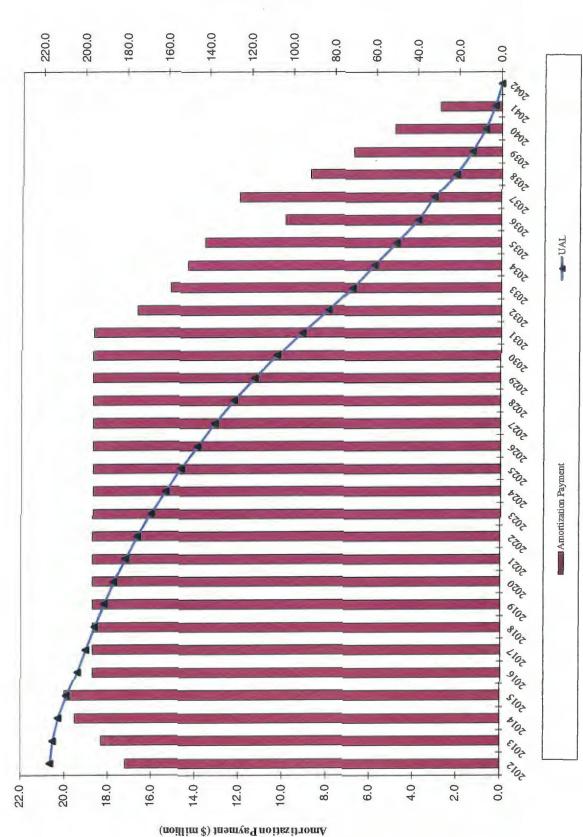
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Funded Ratio (%)

81.1

GRS





30- Year Projection of Unfunded Actuarial Accrued Liability (UAL) and Amortization Payments

# SECTION B VALUATION RESULTS

PARTICIPANT DATA					
		October 1, 2012	0	october 1, 2011	
ACTIVE MEMBERS					
Number (Non-DROP)		1,049		1,072	
Covered Annual Non-DROP Payroll	\$	65,053,945	\$	66,346,904	
Average Annual Non-DROP Pay	\$	62,015	\$	61,891	
Total Covered Annual Payroll	\$	69,782,689	\$	71,127,701	
Average Total Annual Pay	\$	63,209	\$	62,834	
Average Age (Non-DROP)		45.1		44.8	
Average Past Service (Non-DROP)		9.8		9.6	
Average Age at Hire (Non-DROP)		35.3		35.2	
DROP PARTICIPANTS					
Number		55		60	
Annual Benefits	\$	2,994,703	1	3,038,978	
Average Annual Benefit	\$	54,449		50,650	
Average Age	4	59.3		59.1	
Average Age		39.3			
RETIREES & BENEFICIARIES					
Number		1,002		972	
Annual Benefits	\$	33,085,394	\$	30,321,221	
Average Annual Benefit	\$	33,019	\$	31,195	
Average Age		71.1		71.3	
DISABILITY RETIREES	I		<u> </u>		
Number		42		42	
Number	φ.	43	4	43	
Annual Benefits	\$	1,117,160	\$	1,038,368	
Average Annual Benefit	\$	25,980	\$	24,148	
Average Age		65.6		66.3	
TERMINATED VESTED MEMBERS					
Number		63		68	
Annual Benefits	\$	1,343,444	\$	1,296,576	
Average Annual Benefit	\$	21,325	\$	1,296,376	
			P		
Average Age		45.9		46.5	

ANNUAL REQUIRED CONTRIBUTION (ARC)							
A. Valuation Date	October 1, 2012 After Assumption Change	October 1, 2012 Before Assumption Change	October 1, 2011				
B. ARC to Be Paid During Fiscal Year Ending	9/30/2014	9/30/2014	9/30/2013				
C. Assumed Date of Employer Contrib.	10/1/2013	10/1/2013	10/1/2012				
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 17,184,796	\$ 16,555,575	\$ 12,706,745				
E. Employer Normal Cost	7,085,589	6,682,247	6,916,048				
F. ARC if Paid on the Valuation Date: D+E	24,270,385	23,237,822	19,622,793				
G. ARC Adjusted for Frequency of Payments	26,212,015	25,131,704	21,222,051				
<ul><li>H. ARC as % of Covered Payroll</li><li>Non-DROP Payroll</li><li>Total Payroll</li></ul>	40.29 % 37.56 %		31.99 % 29.84 %				
<ul><li>I. Expected Covered Payroll</li><li>- Non-DROP Payroll</li><li>- Total Payroll</li></ul>	65,053,945 69,782,689	65,053,945 69,782,689	66,346,904 71,127,701				

ACTUARIAL VAI	ACTUARIAL VALUE OF BENEFITS AND ASSETS						
A. Valuation Date	October 1, 2012 After Assumption Change	October 1, 2012  Before Assumption  Change	October 1, 2011				
B. Actuarial Present Value of All Projected     Benefits for     1. Active Members							
<ul> <li>a. Service Retirement Benefits</li> <li>b. Vesting Benefits</li> <li>c. Disability Benefits</li> </ul>	\$ 264,825,342 31,967,178 7,271,899	\$ 257,622,998 30,885,431 7,097,334	\$ 269,719,201 31,827,213 6,968,416				
d. Preretirement Death Benefits e. Return of Member Contributions f. Total	3,953,764 631,843 308,650,026	3,855,931 628,393 300,090,087	3,901,096 618,849 313,034,775				
Inactive Members     a. Service Retirees & Beneficiaries     b. Disability Retirees     c. Terminated Vested Members     d. Total	409,347,392 12,377,127 11,480,115 433,204,634	404,010,960 12,213,881 11,210,208 427,435,049	372,407,944 11,255,203 12,545,886 396,209,033				
3. Total for All Members	741,854,660	727,525,136	709,243,808				
C. Actuarial Accrued (Past Service) Liability per GASB No. 25	637,363,774	627,203,174	602,577,503				
<ul> <li>D. Actuarial Value of Accumulated Plan</li> <li>Benefits per FASB No. 35</li> <li>1. Based on Plan's Interest Rate</li> <li>2. Based on FRS Interest Rate</li> </ul>	596,192,659 612,487,510	586,776,312 612,487,510	563,637,296 588,546,798				
<ul><li>E. Plan Assets</li><li>1. Market Value</li><li>2. Actuarial Value</li></ul>	423,447,642 421,376,041	423,447,642 421,376,041	362,764,920 425,781,050				
F. Unfunded Actuarial Accrued Liability: C-E2	215,987,733	205,827,133	176,796,453				
G. Actuarial Present Value of Projected Covered Payroll	543,825,043	539,308,153	548,806,758				
H. Actuarial Present Value of Projected Member Contributions	51,791,078	51,395,925	52,578,408				

CALCULATION OF EMPLOYER NORMAL COST						
A. Valuation Date	October 1, 2012 After Assumption Change	October 1, 2012  Before Assumption  Change	October 1, 2011			
B. Normal Cost for						
<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost         <ul> <li>of Covered Payroll</li> <li>Non-DROP Payroll</li> <li>Total Payroll</li> </ul> </li> </ol>	\$ 9,825,032	\$ 9,508,736	\$ 9,815,719			
	2,047,065	1,975,912	2,015,078			
	529,872	518,795	515,569			
	268,222	262,014	262,722			
	225,573	226,965	226,604			
	12,895,764	12,492,422	12,835,692			
	694,180	694,180	693,694			
	13,589,944	13,186,602	13,529,386			
	20.89 %	20.27 %	20.39 %			
	19.47 %	18.90 %	19.02 %			
C. Expected Member Contribution % of Covered Payroll - Non-DROP Payroll - Total Payroll	6,504,355	6,504,355	6,613,338			
	10.00 %	10.00 %	9.97 %			
	9.32 %	9.32 %	9.30 %			
D. Employer Normal Cost: B8-C % of Covered Payroll - Non-DROP Payroll - Total Payroll	7,085,589	6,682,247	6,916,048			
	10.89 %	10.27 %	10.42 %			
	10.15 %	9.58 %	9.72 %			

## LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

A. Derivation of the Current UAAL	
1. Last Year's UAAL	\$ 176,796,453
2. Employer Normal Cost for Contribution Year	7,433,480
<ul> <li>3. Last Year's Contributions</li> <li>a. Employer Contribution Paid During FYE 9/30/2012</li> <li>b. Prepaid Contribution Applied to FYE 9/30/2012</li> <li>c. Total</li> </ul>	16,312,068 466,878 16,778,946
<ul> <li>4. Interest at the Assumed Rate on:</li> <li>a. 1 and 2 for one year</li> <li>b. 3 from dates paid</li> <li>c. a - b</li> </ul>	15,014,740 1,367,484 13,647,256
<ol> <li>This Year's Expected UAAL Prior to Revision:</li> <li>1 + 2 - 3 + 4c</li> </ol>	181,098,243
Change in UAAL Due to Plan Amendments     and/or Changes in Actuarial Assumptions	10,160,600
7. This Year's Expected UAAL After Revisions: 5 + 6	191,258,843
8. This Year's Actual UAAL After Revisions:	215,987,733
9. Adjustment for 2012 Prepaid Contribution*	869,791
10. This Year's Gain (Loss): 7 - 8 + 9	(23,859,099)
11. Gain (Loss) Due to Investments	(25,503,240)
12. Gain (Loss) Due to Other Causes	1,644,141

<sup>\*</sup> An excess contribution of \$804,245 was made during fiscal year ending 9/30/2011 that was used to offset the contribution requirement for the fiscal year ending 9/30/2012. Since this amount was already reflected in assets for the 10/1/2011 Valuation, an adjustment is required. Therefore, a charge base in the amount of \$869,791 (\$804,245 plus 8.15% interest) was created as of 10/1/2012.

	Original UAA	L		Current UAAL			
Date Established	Source	Amortization Period (Years)	Amount	Years Remaining	Amount	Payr Before Changes	
Established	Source	(Tears)	Amount	Kemaining	Amount	Delore Changes	Anter Change
10/1/98	(Gain) Loss	15	\$ (9,492,383)	1	\$ (1,142,872)	\$ (1,142,872)	\$ (1,142,87)
10/1/99	(Gain) Loss	15	(11,197,306)	2	(2,467,935)	(1,282,283)	(1,281,42
10/1/99	Plan Chg.	15	761,013	2	167,731	87,149	87,09
10/1/00	(Gain) Loss	15	(1,184,364)	3	(361,679)		(129,94
10/1/01	(Gain) Loss	15	4,182,294	4	1,563,571	437,958	437,10
10/1/01	Plan Chg.	15	8,482,719	4	3,171,302	888,286	886,55
10/1/02	(Gain) Loss	30	24,017,296	20	20,763,850	1,977,351	1,958,18
10/1/03	(Gain) Loss	30	16,972,622	21	16,343,016	1,526,028	1,510,70
10/1/04	(Gain) Loss	30	9,682,048	22	9,131,281	837,543	828,85
10/1/05	(Gain) Loss and Assum. Chg.*	30	9,377,578	23	8,608,071	776,841	768,52
10/1/06	(Gain) Loss	30	11,796,972	24	10,858,091	965,521	954,88
10/1/06	(Gain) Loss	30	34,747,408	24	31,981,987	2,843,896	2,812,57
10/1/07	(Gain) Loss	30	(14,036,710)	25	(13,079,347)	(1,147,475)	(1,134,49
10/1/07	Assum. and Method Chg.**	30	(12,143,754)	25	(11,315,499)	(992,730)	(981,50
10/1/08	(Gain) Loss	30	29,844,325	26	29,463,272	2,553,274	2,523,66
10/1/08	Assum. Chg	30	8,228,994	26	8,123,925	704,016	695,85
10/1/09	(Gain) Loss	30	28,291,986	27	27,828,306	2,384,639	2,356,33
10/1/09	Assum. Chg	30	8,975,372	27	8,828,274	756,505	747,52
10/1/09	Assum. Chg	30	(7,968,884)	27	(7,838,281)	(671,671)	(663,70
10/1/09	Plan Chg.	30	(6,161,412)	27	(6,060,432)	(519,325)	(513,16
10/1/09	***	6	(1,126,404)	3	(1,036,146)	(372,767)	(372,27
10/1/10	(Gain) Loss	30	15,123,488	28	15,306,995	1,298,259	1,282,51
10/1/10	Assum. Chg	30	8,061,915	28	8,159,739	692,066	683,67
10/1/11	(Gain) Loss	30	22,163,141	29	22,422,914	1,883,978	1,860,65
10/1/11	Assum. Chg	30	1,658,668	29	1,678,109	140,995	139,25
10/1/12	****	29	869,791	29	869,791	73,080	72,17
10/1/12	(Gain) Loss	30	23,859,099	30	23,859,099	1,987,432	1,962,35
10/1/12	Assum. Chg	30	10,160,600	30	10,160,600	N/A	835,68
			213,946,112		215,987,733	16,555,575	17,184,79

<sup>\*</sup> Loss of 7,060,041 plus assumption change of 2,317,537.

<sup>\*\*</sup>Assumption change of 5,311,398 plus method change of (17,455,152).

<sup>\*\*\*</sup>Credit Base established to reflect receivables from Excess Plan

<sup>\*\*\*\*</sup>Charge Base established to reflect excess contribution for fiscal year ending 9/30/11 that was included in assets. This base is established as of 10/1/12.

## C. Amortization Schedule

The UAAL is being liquidated as a level dollar amount over the number of years remaining in the amortization period. The expected amortization schedule is as follows:

Amortizatio	on Schedule
Year	Expected UAAL
2012 2013 2014 2015 2016	\$ 215,987,733 214,707,175 212,089,868 207,973,292 202,984,986
2022 2027 2032 2037 2042	173,950,748 137,105,252 82,967,131 31,880,733

The assumptions used to anticipate mortality, employment turnover, investment income, expenses, salary increases, and other factors have been based on long range trends and expectations. Actual experience can vary from these expectations. The variance is measured by the gain and loss for the period involved. If significant long term experience reveals consistent deviation from what has been expected and that deviation is expected to continue, the assumptions should be modified.

Net actuarial gains in previous years are as follows:

Year Ended	Gain (Loss)
9/30/1990	\$ (9,106,524)
9/30/1991	2,727,904
9/30/1992	4,954,823
9/30/1993	5,370,894
9/30/1994	(1,696,061)
9/30/1995	6,661,918
9/30/1996	7,568,621
9/30/1997	13,539,264
9/30/1998	6,894,790
9/30/1999	16,168,137
9/30/2000	6,540,306
9/30/2001	(6,572,791)
9/30/2002	(32,586,068)
9/30/2003	(18,414,901)
9/30/2004	(9,682,048)
9/30/2005	(7,060,041)
9/30/2006	(11,796,971)
9/30/2007	14,036,710
9/30/2008	(29,844,325)
9/30/2009	(28,291,986)
9/30/2010	(15,123,488)
9/30/2011	(22,163,141)
9/30/2012	(23,859,099)

### HISTORY OF INVESTMENT RETURNS AND SALARY INCREASES

The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are consistent with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last several years:

		General	Plan		Unclassifi	ed Plan		
	Investment Return		Salary Increases		Investmen	<b>Investment Return</b>		ncreases
Year Ending	Actual	Assumed	Actual	Assumed	Actual	Assumed	Actual	Assumed
9/30/1989	11.6 %	8.0 %	1.9 %	6.0 %	14.6 %	8.0 %	3.2 %	6.0 %
9/30/1990	7.3	8.5	7.5	6.0	(2.3)	8.0	12.3	6.0
9/30/1991	8.1	8.5	3.0	6.0	21.6	8.5	3.4	6.0
9/30/1992	13.7	8.5	2.0 *	6.0	5.8	9.0	2.4	6.0
9/30/1993	11.4	8.5	3.1	6.0	14.1	9.0	6.3	6.0
9/30/1994	6.8	8.5	3.9	6.0	4.8	9.0	6.0	6.0
9/30/1995	11.4	8.5	8.8	6.0	24.1	9.0	7.6	6.0
9/30/1996	15.3	8.5	4.2	6.0	13.9	9.0	8.6	6.0
9/30/1997	13.8	8.5	6.0	6.0	19.1	9.0	7.4	6.0
9/30/1998	12.5	8.5	5.0	6.0	4.3	9.0	4.1	6.0
9/30/1999	14.4	8.5	7.3	6.0	18.8	9.0	7.1	6.0
9/30/2000	10.7	8.5	6.7	6.0	16.5	9.0	6.7	6.0
9/30/2001	7.2	8.5	9.3	6.0	9.7	9.0	7.0	6.0
9/30/2002	0.3	8.5	8.9	6.0	1.7	9.0	9.2	6.0
9/30/2003	4.3	8.5	8.1	6.0	4.6	9.0	7.5	6.0
9/30/2004	4.1	8.5	3.1	6.0	9.7	9.0	5.7	6.0
9/30/2005	4.4	8.5	4.7	6.0	10.7	9.0	6.8	6.0
9/30/2006	7.7	8.5	11.9	6.0	10.2	8.75	7.9	6.0
9/30/2007 **	12.0	8.75	(3.6)	6.0	NA	NA	NA	NA
9/30/2008 **	5.2	8.65	11.3	6.0	NA	NA	NA	NA
9/30/2009 **	1.1	8.50	4.8	6.0	NA	NA	NA	NA
9/30/2010 **	5.0	8.35	2.5	6.0	NA	NA	NA	NA
9/30/2011 **	1.1	8.25	0.8	6.8	NA	NA	NA	NA
9/30/2012 **	2.1	8.15	1.7	5.7	NA	NA	NA	NA
Averages	7.9 %		5.1 %		11.0 %		6.6 %	

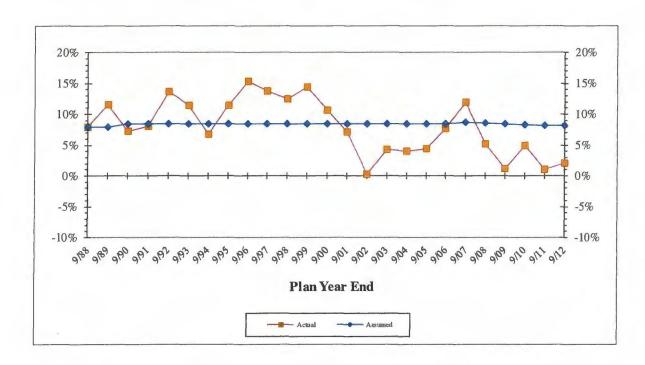
<sup>\*</sup> Approximate rate

The actual investment return rates shown above are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuation both at the beginning and the end of each period. The exhibits that follow illustrate the table above in graphic form.

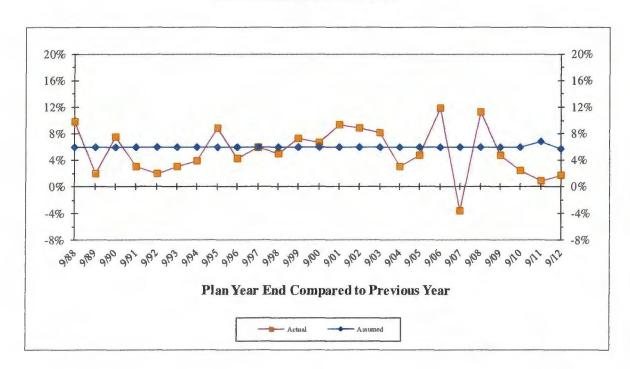


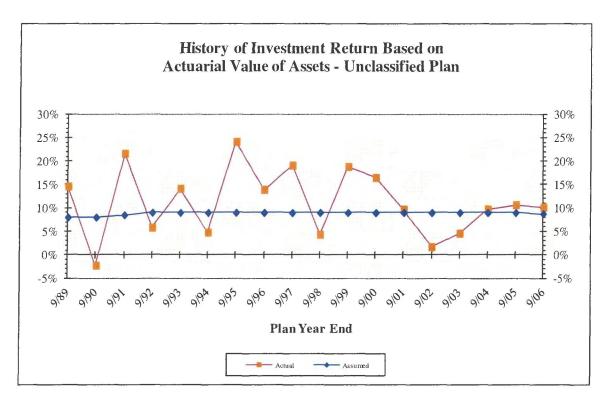
<sup>\*\*</sup> Represents salary increases and investment return for the total group Note: Figures before 1992 were taken from Reports of Buck Consultants.

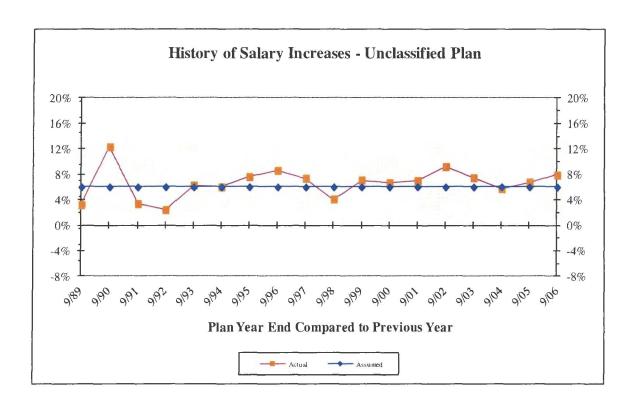
# History of Investment Return Based on Actuarial Value of Assets – General Plan and Combined Plan after 2006



History of Salary Increases – General Plan and Combined Plan after 2006







## Actual (A) Compared to Expected (E) Decrements Among Active Employees

	Ad Du	nber ded ring	DI	rice &		oility			-	erminat			Active Members
Year	-	ar		rement	Retire	1		ath	Vested	Other		tals	End of
Ended	A	E	A	E	A	E	A	E	A	A	A	E	Year
9/30/2003	109	46	20	40	0	3	2	1	15	9	24	33	714
9/30/2004	65	54	24	37	2	3	1	1	18	9	27	35	725
9/30/2005	73	62	16	43	2	3	2	1	23	19	42	37	736
9/30/2006 *	357	75	40	40	0	3	1	1	21	13	34	37	1018
9/30/2007	149	106	40	86	2	3	1	2	17	46	63	49	1061
9/30/2008	182	85	29	92	1	3	1	2	24	30	54	61	1158
9/30/2009	78	29	55	123	2	3	1	2	12	12	24	64	1154
9/30/2010	35	72	31	114	0	3	1	2	10	30	40	69	1117
9/30/2011	37	82	27	38	3	1	3	2	9	40	49	43	1072
9/30/2012	60	83	41	46	2	1	1	2	16	23	39	39	1049
9/30/2013				45		1		2				38	
0 Yr Totals **	1145	694	323	659	14	26	14	16	165	231	396	467	

<sup>\*</sup> Includes 401a transfers

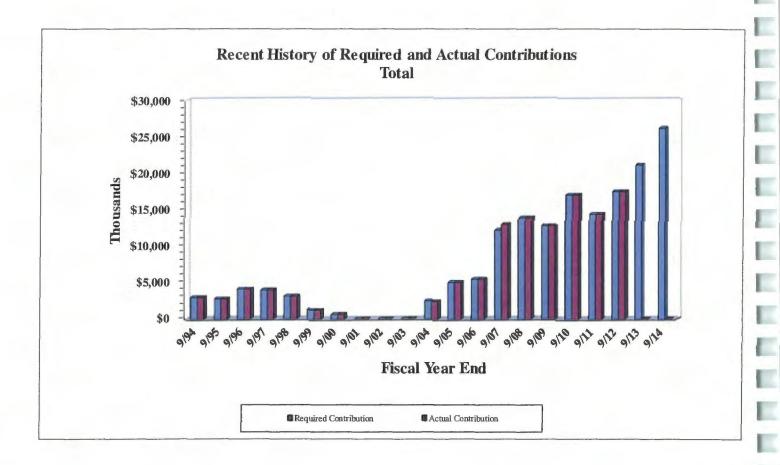
<sup>\*\*</sup> Totals are through current Plan Year only

End of Year To Which Iluation pplies	Required I Contril Amount	bution % of	Actual Employer Contribution	Expected F Contrib	
<b>Applies</b> 730/94	Amount				
		Payroll 1		Amount	% of Payroll
30/96 30/97 30/98 30/99 30/00 30/01 30/02 30/03 30/04 30/05 30/06 30/07 30/08	\$ 3,004,556 2,809,509 4,151,807 3,982,477 3,091,359 1,293,920 666,897 - - 2,476,702 5,082,595 5,500,329 12,234,519 13,911,545	13.59 % 13.32 18.92 16.97 12.29 4.99 2.66 8.16 14.74 15.89	\$ 3,004,556 2,809,509 4,151,807 3,982,477 3,091,359 1,293,920 666,897 - 2,476,702 5,082,595 5,500,329 13,053,231 13,911,545	2,210,760 2,109,411 2,194,453 2,346,131 2,514,836 2,593,998 2,507,033 2,541,861 2,588,940 2,766,409 3,035,064 3,448,863 3,461,920 4,550,013 4,901,855	10.00 % 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 * 8.59 8.54
30/09 30/10 30/11 30/12 30/13	12,863,823 17,137,394 14,474,678 17,583,191 21,222,051 26,212,015	21.57 25.20 20.65 25.54 31.99 40.29	12,863,823 17,137,394 14,474,678 17,583,191 ** NA	4,987,739 5,627,519 7,146,837 6,995,774 6,613,338 6,504,355	8.36 8.27 10.20 10.16 9.97 10.00
30 30 30	)/10 )/11 )/12 )/13	0/10	0/10     17,137,394     25.20       0/11     14,474,678     20.65       0/12     17,583,191     25.54       0/13     21,222,051     31.99	0/10     17,137,394     25.20     17,137,394       14,474,678     20.65     14,474,678       17,583,191     25.54     17,583,191     **       0/13     21,222,051     31.99     NA       0/14     26,212,015     40.29     NA	0/10     17,137,394     25.20     17,137,394     5,627,519       0/11     14,474,678     20.65     14,474,678     7,146,837       0/12     17,583,191     25.54     17,583,191     **     6,995,774       0/13     21,222,051     31.99     NA     6,613,338       0/14     26,212,015     40.29     NA     6,504,355

<sup>\*</sup> From February 28, 2006 Actuarial Impact Statement.

\*\* Reflects use of \$1,271,123 prepaid contribution

<sup>(1)</sup> Non-DROP Payroll



#### ACTUARIAL ASSUMPTIONS AND COST METHOD

#### Valuation Methods

Actuarial Cost Method - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an Individual Entry-Age Actuarial Cost Method having the following characteristics:

- (i) the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

**Financing of Unfunded Actuarial Accrued Liabilities -** Unfunded Actuarial Accrued Liabilities (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) dollar contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets phase in the difference between the expected actuarial value and actual market value of assets at the rate of 20% per year. The Actuarial Value of Assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the Market Value of plan assets and whose upper limit is 120% of the Market Value of plan assets. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than assumed rate, Actuarial Value of Assets will tend to be greater than Market Value.

#### **Valuation Assumptions**

The actuarial assumptions used in the valuation are shown in this Section.

#### **Economic Assumptions**

*The investment return rate* assumed in the valuations is 8.00% per year, compounded annually (net after investment expenses).

The Wage Inflation Rate assumed in this valuation was 4.00% per year. The Wage Inflation Rate is defined to be the portion of total pay increases for an individual that are due to macroeconomic forces including productivity, price inflation, and labor market conditions. The wage inflation rate does not include pay changes related to individual merit and seniority effects.

The assumed **real rate of return** over wage inflation is defined to be the portion of total investment return that is more than the assumed wage inflation rate. Considering other economic assumptions, the 8.00% investment return rate translates to an assumed real rate of return over wage inflation of 4.00%.

Rates of salary increases used are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.



and .	*		0	
9/0	Increase	in	Sa	arv

_	70 III		
Years of	Merit and	Base	Total
Service	Seniority	(Economic)	Increase
1	3.0%	4.0%	7.0%
2	2.9%	4.0%	6.9%
3	2.8%	4.0%	6.8%
4	2.7%	4.0%	6.7%
5	2.6%	4.0%	6.6%
6	2.5%	4.0%	6.5%
7	2.0%	4.0%	6.0%
8	1.9%	4.0%	5.9%
9	1.8%	4.0%	5.8%
10	1.7%	4.0%	5.7%
11	1.6%	4.0%	5.6%
12	1.5%	4.0%	5.5%
13	1.4%	4.0%	5.4%
14	1.3%	4.0%	5.3%
15	1.2%	4.0%	5.2%
16	1.1%	4.0%	5.1%
17	1.0%	4.0%	5.0%
18	0.9%	4.0%	4.9%
19	0.8%	4.0%	4.8%
20	0.7%	4.0%	4.7%
21+	0.5%	4.0%	4.5%

## **Demographic Assumptions**

The mortality table was the RP-2000 Combined Healthy Participant Mortality Tables for males and females projected to the year 2010 using Scale AA. There is no provision for future mortality improvements after 2010. As noted in the Discussion of Valuation Results, we recommend that the mortality assumption be revised to include a margin for mortality improvements after 2010. Sample values of the current life expectancies are shown below.

This assumption is used to measure the probabilities of each benefit being made after retirement. For active members, the probabilities of dying before retirement were based upon the same mortality table as members dying after retirement (25% of deaths are assumed to be service-connected).

## **Current Mortality Assumption**

Sample	Probabi	lity of	Future	Life	
Attained	Dying Ne	ext Year	Expectancy (years)		
Ages	Men	Women	Men	Women	
50	0.18 %	0.14 %	31.85	34.16	
55	0.30	0.25	27.17	29.44	
60	0.57	0.48	22.66	24.89	
65	1.11	0.92	18.44	20.61	
70	1.91	1.59	14.60	16.69	
75	3.29	2.59	11.12	13.15	
80	5.82	4.28	8.13	10.00	

The rates of retirement used to measure the probability of eligible members retiring during the next year are shown in the table below.

**Normal Retirement Rates** 

		Assumed Rate of
Years of Service	Age	Retirement
5-9	50-54	5.0 %
	55-59	5.0
	60-64	10.0
	65-69	20.0
	70+	100.0
10-14	50-54	5.0
	55-59	5.0
	60-64	10.0
	65-69	10.0
	70+	100.0
15-19	50-54	15.0
	55-59	15.0
	60-64	20.0
	65-69	25.0
	70+	100.0
20-24	50-54	25.0
	55-59	25.0
	60-64	35.0
	65-69	50.0
	70+	100.0
25-29	50-54	70.0
	55-59	40.0
	60-64	50.0
	65-69	50.0
	70+	100.0
30+	50-54	100.0
	55-59	100.0
	60-64	100.0
	65-69	100.0
	70+	100.0

The rate of retirement is 5% for each year of eligibility for early retirement.

Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

Sample	Years of	% of Active Members
Ages	Service	Separating Within Next Year
ALL	0	9.80 %
	1	7.70
	2	6.20
	3	5.00
	4	4.00
20	5 & Over	7.00
25		6.64
30		6.16
35		5.28
40		4.20
45		3.44
50		2.84
55		2.60

Rates of disability among active members are shown in the table below (50% of disabilities are assumed to be service connected).

Sample Ages	% Becoming Disabled Within Next Year
25	0.03 %
30	0.03
35	0.05
40	0.07
45	0.11
50	0.17
55	0.23
60	0.37
65	0.56

## **Miscellaneous and Technical Assumptions**

Administrative & Investment Expenses

The investment return assumption is intended to be the return net of investment expenses. Annual administrative expenses are assumed to be the average of non-investment related expenses averaged over the last two years. Assumed administrative expenses are added to the Normal Cost.

Benefit Service

Service rounded to the nearest month is used to determine the amount of benefit payable.

**Decrement Operation** 

Disability and mortality decrements operate during retirement eligibility.

**Decrement Timing** 

Decrements of all types are assumed to occur at the beginning of the year.

Eligibility Testing

Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

**Forfeitures** 

For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.

**Incidence of Contributions** 

Employer contributions are assumed to be made in full on the first day of the fiscal year. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

Marriage Assumption

85% of males and 85% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.

Normal Form of Benefit

50% joint and survivor annuity; life annuity for members hired after September 30, 2010.

Pay Increase Timing

Middle of fiscal year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.

Cost of Living Increase

2.5% per year for Tier A and Tier B members; 1.5% per year for Tier C members. Increases are assumed to begin 2.75 years after retirement / DROP for Tier A and Tier B members and 4 years after retirement / DROP for Tier C members. This assumption reflects the COLA delay for DROP members.

Maximum Benefits

Benefits calculated for valuation purposes are limited to the maximum allowable benefits under Section 415 of the Internal Revenue Code.

## **GLOSSARY**

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

**Actuarial Cost Method** 

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

**Actuarial Valuation** 

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 25, such as the Funded Ratio and the Annual Required Contribution (ARC).

Actuarial Value of Assets

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution (ARC).

#### Amortization Method

A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.

**Amortization Payment** 

That portion of the plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period

The period used in calculating the Amortization Payment.

Annual Required Contribution (ARC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB No. 25. The ARC consists of the Employer Normal Cost and Amortization Payment.

Closed Amortization Period

A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

**Employer Normal Cost** 

The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single Amortization Period For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

**Funded Ratio** 

The ratio of the Actuarial Value of Assets to the Actuarial Accrued

Liability.

**GASB** 

Governmental Accounting Standards Board.

GASB No. 25 and GASB No. 27 These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 25 sets the rules for the systems themselves.

Normal Cost

The annual cost assigned, under the Actuarial Cost Method, to the current plan year.

**Open Amortization Period** 

An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.

Unfunded Actuarial Accrued Liability

The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.

Valuation Date

The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.

# **SECTION C**

# PENSION FUND INFORMATION

#### STATEMENT OF PLAN ASSETS AT MARKET VALUE

	September 30				
Item	2012	2011			
A. Cash and Cash Equivalents (Operating Cash)	\$ -	\$ -			
B. Receivables:					
1. Member Contributions	\$ -	\$ -			
2. Employer Contributions	-	_			
3. Investment Income and Other Receivables	677,079	6,690,355			
4. Total Receivables	\$ 677,079	\$ 6,690,355			
C. Investments					
1. Short Term Investments	\$ 8,587,189	\$ 11,420,963			
2. Domestic Equities	220,807,764	184,999,731			
3. International Equities	72,280,878	63,176,401			
4. Domestic Fixed Income	119,997,247	106,295,271			
5. International Fixed Income	543,630	250,000			
6. Real Estate	-	•			
7. Private Equity	-	-			
8. ICMA Account (for DROP)*	6,215,544	5,522,157			
9. Total Investments	\$ 428,432,252	\$ 371,664,523			
D. Liabilities					
1. Benefits	\$ -	\$ -			
2. Prepaid Employer Contribution	-	-			
3. Expenses	(166,258)	(144,286)			
4. Other	(213,117)	(10,700,944)			
5. Total Liabilities	\$ (379,375)	\$ (10,845,230)			
E. Total Market Value of Assets Available for Benefits	\$ 428,729,956	\$ 367,509,648			
F. Reserves					
<ol> <li>DROP Accounts*</li> </ol>	\$ (6,215,544)	\$ (5,522,157)			
2. Total Reserves	\$ (6,215,544)	\$ (5,522,157)			
G. Adjustments					
Receivables from Excess Benefit Plan	\$ 933,230	\$ 1,244,307			
2. Prepaid Contribution	\$ 933,230	\$ 777,429 *			
3. Total Adjustments					
H. Market Value Net of Reserves and Adjustments	\$ 423,447,642	\$ 362,764,920			
I. Allocation of Investments					
1. Short Term Investments	2.00%	3.07%			
2. Domestic Equities	51.54%	49.77%			
3. International Equities	16.87%	17.00%			
4. Domestic Fixed Income	28.01%	28.60%			
5. International Fixed Income	0.13%	0.07%			
6. Real Estate	0.00%	0.00%			
7. Private Equity	0.00%	0.00%			
8. ICMA Account (for DROP)	1.45%	1.49%			
9. Total Investments	100.00%	100.00%			

<sup>\*</sup> Includes outstanding loan balances.

\*\* Overpayment by the city for fiscal year ending 9/30/11.



# RECONCILIATION OF PLAN ASSETS

			iber 30				
			Item		2012		2011
A.	Marl	ket Valu	e of Assets at Beginning of Year	\$	367,509,648	\$	381,385,702
B.	Reve	enues an	d Expenditures				
	1.		ributions				
		a.	Employee Contributions	\$	7,425,051	\$	7,278,327
		b.	Employer Contributions		16,312,068		14,474,678
		c.	Other		_		_
		d.	Total	\$	23,737,119	\$	21,753,005
	2.	Invest	ment Income				
		a.	Interest, Dividends, and Other Income	\$	5,095,280	\$	4,738,296
		b.	Net Realized and Unrealized Gains/(Losses)*		69,957,932		(7,308,679)
		C.	Investment Expenses		(907,577)		(913,759)
		d.	Net Investment Income	\$	74,145,635	\$	(3,484,142)
	3.	Benef	its and Refunds				
		a.	Refunds	\$	(811,738)	\$	(722,830)
		b.	Regular Monthly Benefits		(32,210,101)		(30,566,434)
		c.	DROP Disbursements		(2,934,154)		(173,747)
		d.	Other Payments (Transfers to Police & Fire Plan)				<u> </u>
		e.	Total	\$	(35,955,993)	\$	(31,463,011)
	4.	Admir	nistrative and Miscellaneous Expenses	\$	(706,453)	\$	(681,906)
	5.	5. Transfers		\$	-	\$	-
C.	Mark	arket Value of Assets at End of Year		\$	428,729,956	\$	367,509,648
D.	Rese	rves					
	1.	DROF	Accounts**	_\$	(6,215,544)	_\$	(5,522,157)
	2.	Total 1	Reserves	\$	(6,215,544)	\$	(5,522,157)
E.	Adjus	tments					
	1.		vables from Excess Benefit Plan	\$	933,230	\$	1,244,307
	2.		d Contribution		_		(466,878) ***
	3.	Total A	Adjustments	\$	933,230	\$	777,429
F.	Mark	et Value	e Net of Reserves and Adjustments	\$	423,447,642	\$	362,764,920

<sup>\*</sup> We were not provided with the breakdown of this amount between realized gains/(losses) and unrealized gains/(losses).

<sup>\*\*</sup> Includes outstanding loan balances.

<sup>\*\*\*</sup> Overpayment by the city for fiscal year ending 9/30/11.

# **Reconciliation of DROP Accounts**

Value at Beginning of Year	\$ 5,522,157
Payments Credited to Accounts*	3,352,662
Investment Earnings Credited to Accounts	274,879
Withdrawals from Accounts	(2,934,154)
Value at End of Year	6,215,544

<sup>\*</sup>Reflects change in outstanding loan balance.

Valuation Date - September 30	2011	2012	2013	3	2014	2015
A. Actuarial Value of Assets Beginning of Year	\$ 432,953,336	\$ 430,525,778	€	1	1	· ·
B. Market Value End of Year	367,509,648	428,729,956		ı	ı	,
C. Market Value Beginning of Year	381,385,702	367,509,648		1	Ē	1
D. Non-Investment/Administrative Net Cash Flow	(10,391,912)	(12,925,327)		t	I	1
E. Investment Income				1	T	I
E1. Actual Market Total: B-C-D	(3,484,142)	74,145,635		1	1	1
E2. Assumed Rate of Return	8.25%	8.15%		8.00%	8.00%	8.00%
E3. Assumed Amount of Return	35,289,984	34,561,144		ŧ	1	,
E4. Amount Subject to Phase-In: E1-E3	(38,774,126)	39,584,491		1	1	1
F. Phase-In Recognition of Investment Income				ı		1
F1. Current Year: 0.20 x E4	(7,754,825)	7,916,898		1	1	1
F2. First Prior Year	709,422	(7,754,825)	7,91	7,916,898	1	1
F3. Second Prior Year	(7,750,361)	709,422	(7,75	(7,754,825)	7,916,898	
F4. Third Prior Year	(18,624,374)	(7,750,361)	70	709,422	(7,754,825)	7,916,898
F5. Fourth Prior Year	2,685,676	(18,624,374)	(7,75	(7,750,361)	709,422	(7,754,825)
F6. ASOP No. 44 Compliance Adjustment*	3,408,832	1		1	ľ	-
F7. Total Phase-Ins	(27,325,630)	(25,503,240)	(6,87	(6,878,866)	871,495	162,073
G. Actuarial Value of Assets End of Year						
G1. Preliminary Actuarial Value of Assets:	\$ 430,525,778	\$ 426,658,355	↔	ı	· •	· ·
G2. Upper Corridor Limit: 120%*B	441,011,578	514,475,947		ı	i	
G3. Lower Corridor Limit: 80%*B	294,007,718	342,983,965		t	ī	1
G4. Funding Value End of Year	430,525,778	426,658,355		ř	ī	1
G5. Less: DROP Account Balances	5,522,157	6,215,544		ſ	É	ı
G6. Plus: Adjustments	1,244,307	933,230				
G7. Less: Prepaid Contribution	466,878					
G8. Final Funding Value End of Year	425,781,050	421,376,041		1	•	
H. Difference between Market & Actuarial Value		\$ 2,07	<del>≶</del>		·	€9
I. Actuarial Rate of Return		** 2.14%		0.00%	0.00%	0.00%
J. Market Value Rate of Return	-0.93%	20.54%		0.00%	0.00%	0.00%
K. Ratio of Actuarial Value to Market Value	11715%	99.52%		0.00%	0.00%	%000

\* Per ASOP No. 44, a one-time adjustment of \$3,408,832 is required. \*\* Before adjustment for ASOP No. 44

#### INVESTMENT RATE OF RETURN

	General P	lan **	Unclassi	fied Plan
Year Ended	Market Value	Actuarial Value	Market Value	Actuarial Value
9/30/89	NA %	11.6 %	14.6 %	14.6 %
9/30/90	NA	7.3	(2.3)	(2.3)
9/30/91	NA	8.1	21.6	21.6
9/30/92	12.2	13.7	5.8	5.8
9/30/93	14.6	11.4	14.6	14.1
9/30/94	1.4	6.8	5.3	4.8
9/30/95	20.0	11.4	25.9	24.1
9/30/96	9.8	15.3	22.7	13.9
9/30/97	23.0	13.8	35.2	19.1
9/30/98	8.4	12.5	(0.3)	4.3
9/30/99	13.1	14.4	19.1	18.8
9/30/00	10.8	10.7	11.5	16.5
9/30/01	(7.4)	7.2	(8.1)	9.7
9/30/02	(5.9)	0.3	(9.8)	1.7
9/30/03	17.4	4.3	16.9	4.6
9/30/04	11.4	4.1	13.0	9.7
9/30/05	12.8	4.4	13.8	10.7
9/30/06	7.4 *	7.7	7.5 *	10.2 *
9/30/07	15.3	12.0	NA	NA
9/30/08	(13.6)	5.2	NA	NA
9/30/09	(0.8)	1.1	NA	NA
9/30/10	11.3	5.0	NA	NA
9/30/11	(0.9)	1.1	NA	NA
9/30/12	20.5	2.1	NA	NA
Average Returns:				
Last 5 Years	2.6 %	2.9 %	NA %	NA %
Last 10 Years	7.6 %	4.7 %	NA %	NA %
All Years	8.2 %	7.9 %	10.9 %	11.0 %

<sup>\*</sup> Note: Effective 10/1/06, the former General and Unclassified Plans were merged and assets were combined. Investment returns after this date are for the total group.

<sup>\*\*</sup> Combined Plan after 2006

# SECTION D

# FINANCIAL ACCOUNTING INFORMATION

	FASB NO. 35 INFOR	MATION	
A	Valuation Date	October 1, 2012	October 1, 2011
В.	Actuarial Present Value of Accumulated Plan Benefits		
	1. Vested Benefits		
	<ul><li>a. Members Currently Receiving Payments</li><li>b. Terminated Vested Members</li><li>c. Other Members</li><li>d. Total</li></ul>	\$ 421,724,519 11,480,115 156,713,222 589,917,856	\$ 383,663,147 12,545,886 161,655,997 557,865,030
	2. Non-Vested Benefits	6,274,803	5,772,266
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	596,192,659	563,637,296
	4. Accumulated Contributions of Active Members	61,073,761	60,662,311
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits		
	1. Total Value at Beginning of Year	563,637,296	534,033,829
	2. Increase (Decrease) During the Period Attributable to:		
	a. Plan Amendment	0	0
	<ul><li>b. Change in Actuarial Assumptions</li><li>c. Latest Member Data, Benefits Accumulated</li></ul>	9,416,347	5,939,085
	and Decrease in the Discount Period	59,513,517	55,127,393
	d. Benefits Paid e. Net Increase	(36,374,501) 32,555,363	<u>(31,463,011)</u> 29,603,467
	3. Total Value at End of Period	596,192,659	563,637,296
D.	Actuarial Present Value of Accumulated Plan Benefits Using FRS Interest Rate	390,192,039	303,037,290
	a, Vested	605,681,200	581,914,369
	b. Non-Vested	6,806,310	6,632,429
_	c. Total	612,487,510	588,546,798
E.	Market Value of Assets	423,447,642	362,764,920
F.	Funded Ratio Using FRS Interest Rate	69.1 %	61.6 %
G.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods		

# SCHEDULE OF FUNDING PROGRESS (GASB Statement No. 25)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL As % of Covered Payroll (b-a)/c
10/1/1993	\$ 185,721,855	\$ 187,130,465	\$ 1,408,610	99.2 %	\$ 21,094,111	6.7 %
10/1/1994	188,997,087	202,078,377	13,081,290	93.5	21,944,531	9.69
10/1/1995	208,877,297	213,844,465	4,967,168	7.76	23,461,309	21.2
10/1/1996	226,633,680	222,221,064	(4,412,616)	102.0	25,148,361	(17.5)
10/1/1997	251,171,973	232,871,332	(18,300,641)	107.9	25,939,981	(70.5)
10/1/1998	266,716,007	240,760,472	(25,955,535)	110.8	25,070,334	(103.5)
10/1/1999	305,344,213	263,462,059	(41,882,154)	115.9	25,418,614	(164.8)
10/1/2000	326,816,322	277,933,325	(48,882,997)	117.6	25,889,403	(188.8)
10/1/2001	336,024,366	292,748,088	(43,276,278)	114.8	27,664,085	(156.4)
10/1/2002	322,181,146	319,831,292	(2,349,854)	100.7	30,350,644	(7.7)
10/1/2003	320,053,468	338,904,200	18,850,732	94.4	34,488,630	54.7
10/1/2004	320,735,755	352,105,058	31,369,303	91.1	34,619,199	9.06
10/1/2005	325,727,087	368,096,409	42,369,322	88.5	36,680,110	115.5
10/1/2006	358,458,949	448,933,278	90,474,329	79.8	57,390,894	157.6
10/1/2007	412,824,235	478,067,829	65,243,594	86.4	59,632,425	109.4
10/1/2008	425,714,565	526,481,586	100,767,021	80.9	68,009,550	148.2
10/1/2009	420,520,122	545,536,965	125,016,843	77.1	70,097,549	178.3
10/1/2010	431,479,305	580,246,165	148,766,860	74.4	68,844,264	216.1
10/1/2011	425,781,050	602,577,503	176,796,453	7.07	66,346,904	266.5
10/1/2012	(b) 421,376,041	627,203,174	205,827,133	67.2	65,053,945	316.4
10/1/2012	(a) 421,376,041	637,363,774	215,987,733	66.1	65,053,945	332.0

(a) After Changes(b) Before Changes

# SCHEDULE OF EMPLOYER CONTRIBUTIONS

(GASB Statement No. 25)

Year Ended September 30	Annual Required Contribution	Actual Contribution	Percentage Contributed
1994	\$ 3,004,556	\$ 3,004,556	100.0 %
1995	2,809,509	2,809,509	100.0
1996	4,151,807	4,151,807	100.0
1997	3,982,477	3,982,477	100.0
1998	3,091,359	3,091,359	100.0
1999	1,293,920	1,293,920	100.0
2000	666,897	666,897	100.0
2001	0	0	NA
2002	0	0	NA
2003	0	0	NA
2004	2,476,702	2,476,702	100.0
2005	5,082,595	5,082,595	100.0
2006	5,500,329	5,500,329	100.0
2007	12,234,519	13,053,231	106.7
2008	13,911,545	13,911,545	100.0
2000	13,711,543	15,711,545	100.0
2009	12,863,823	12,863,823	100.0
2010	17,137,394	17,137,394	100.0
2011	14,474,678	14,474,678	100.0
2012	17,583,191	17,583,191	100.0

# SECTION E MISCELLANEOUS INFORMATION

RECONCILIATION OF MEMBERSHIP DATA						
		From 10/1/11	From 10/1/10			
		To 10/1/12	To 10/1/11			
A.	Active Members					
1.	Number Included in Last Valuation	1,072	1,117			
2.	New Members Included in Current Valuation	60	37			
3.	Employment Terminations	(35)	(49)			
4.	Service Retirements	(13)	(12)			
5.	DROP Retirements	(28)	(15)			
6.	Disability Retirements	(2)	(3)			
7.	Deaths	(1)	(3)			
8.	Other - Transfers Out and Data Adjustments	(4)	0			
9.	Number Included in This Valuation	1,049	1,072			
В.	Terminated Vested Members					
1.	Number Included in Last Valuation	68	75			
2.	Additions from Active Members	16	8			
3.	Lump Sum Payments/Refund of Contributions	(10)	(5)			
4.	Payments Commenced	(11)	(9)			
5.	Deaths	0	0			
6.	Other - Data Adjustments	0	(1)			
7.	Number Included in This Valuation	63	68			
C.	DROP Plan Members					
1.	Number Included in Last Valuation	60	49			
2.	Additions from Active Members	28	15			
3.	Retirements	(32)	(4)			
4.	Deaths	(1)	0			
5.	Other	0	0			
6.	Number Included in This Valuation	55	60			
D.	Service Retirees, Disability Retirees and Beneficia	ries				
1.	Number Included in Last Valuation	1,015	1,021			
2.	Additions from Active Members	15	17			
3.	Additions from Terminated Vested Members	11	9			
4.	Additions from DROP Plan	33	4			
5.	Deaths Resulting in No Further Payments	(30)	(37)			
6.	Deaths Resulting in New Survivor Benefits	1	0			
7.	End of Certain Period - No Further Payments	0	0			
8.	Other	0	1			
9.	Number Included in This Valuation	1,045	1,015			

# MIAMI BEACH EMPLOYEES' RETIREMENT PLAN - ACTIVE MEMBERS ON OCTOBER 1, 2012

Age	Years of Service								
Group	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals	
20-24	8								
Total Pay	315,444							315,44	
Avg Pay	39,431							39,431	
11.6 14)	33,131							0,7,10	
25-29	41	31						72	
Total Pay	1,731,144	1,203,502						2,934,646	
Avg Pay	42,223	38,823						40,759	
30-34	44	59	9					112	
Total Pay	2,037,301	2,794,671	452,603					5,284,575	
Avg Pay	46,302	47,367	50,289					47,184	
35-39	35	59	27	6				127	
Total Pay	1,766,394	3,074,098	1,741,978	307,580				6,890,050	
Avg Pay	50,468	52,103	64,518	51,263				54,252	
40-44	37	56	45	25	2			165	
<b>Total Pay</b>	2,016,184	3,110,985	2,841,591	1,835,234	141,623			9,945,617	
Avg Pay	54,491	55,553	63,146	73,409	70,812			60,276	
45-49	34	48	44	41	23	7	1	198	
Total Pay	2,372,127	2,889,856	3,111,759	2,910,006	1,854,330	483,786	58,986	13,680,850	
Avg Pay	69,768	60,205	70,722	70,976	80,623	69,112	58,986	69,095	
50-54	20	51	40	42	10	9	4	176	
Total Pay	1,218,613	2,885,974	2,785,749	2,997,090	859,051	740,235	396,840	11,883,552	
Avg Pay	60,931	56,588	69,644	71,359	85,905	82,248	99,210	67,520	
55-59	18	19	27	22	5			91	
Total Pay	982,329	1,009,870	1,596,067	1,453,669	384,327			5,426,262	
Avg Pay	54,574	53,151	59,114	66,076	76,865			59,629	
60-64	8	25	14	21		1		69	
Total Pay	653,782	1,739,751	923,785	1,682,187		63,466		5,062,971	
Avg Pay	81,723	69,590	65,985	80,104		63,466		73,376	
65-99	3	9	6	8	3	2		31	
Total Pay	246,909	479,847	345,142	485,151	171,852	110,911		1,839,812	
Avg Pay	82,303	53,316	57,524	60,644	57,284	55,456		59,349	
Total No.	248	357	212	165	43	19	5	1,049	
Total Pay	13,340,227	19,188,554	13,798,674	11,670,917	3,411,183	1,398,398	455,826	63,263,779	
Avg Pay	53,791	53,749	65,088	70,733	79,330	73,600	91,165	60,309	

# **INACTIVE MEMBERS ON OCTOBER 1, 2012**

					Retirees	s, Beneficiaries &		
	Term	inated Vested	1	Disabled		DROP	Gr	and Total
		Annual		Annual		Annual		Annual
Age	No.	Benefits	No.	Benefits	No.	Benefits	No.	Benefits
2.332	77	200		55. 20 30000000000000000000000000000000000				
Under 45	23	\$ 489,869	1	\$ 15,847	5	79,817	29	\$ 585,533
45-49	23	571,763	5	135,657	5	162,300	33	869,720
50-54	17	281,812	7	239,288	85	4,233,473	109	4,754,573
55-59	0	-	5	121,500	112	5,093,837	117	5,215,337
60-64	0	-	4	96,683	182	7,937,185	186	8,033,868
65-69	0	-	7	240,413	161	6,203,706	168	6,444,119
70-74	0	-	1	33,079	127	3,759,671	128	3,792,750
75-79	0	- ]	3	67,854	127	3,392,548	130	3,460,402
80-84	0	-	3	45,720	113	2,631,053	116	2,676,773
85-89	0	-	6	110,722	79	1,628,311	85	1,739,033
90 & Up	0	-	1	10,397	61	958,196	62	968,593
Total	63	\$ 1,343,444	43	\$1,117,160	1057	\$ 36,080,097	1,163	\$ 38,540,701

# SECTION F SUMMARY OF PLAN PROVISIONS

#### SUMMARY OF PLAN PROVISIONS

#### **Effective Date**

September 30, 2010 under Ordinance No. 2010-3693 and Ordinance No. 2010-3706

#### Eligibility

Each general employee who works more than 30 hours per week is eligible for membership on his date of employment

#### **Creditable Service**

Service credited under the predecessor system plus service after such date with respect to which member contributions are made.

#### Tiers of Employees

Tier C - All members hired on or after September 30, 2010 (October 27, 2010 for members of

Tier B – Members of AFSCME hired on or after April 30, 1993; members classified as GSA or "Other" hired on or after August 1, 1993; members of CWA hired on or after February 21, 1994; and Unclassified members hired on or after October 18, 1992.

Tier A – All other members

#### **Earnings**

For Tier B and C members, base pay including longevity, but excluding overtime, shift differential or extra compensation allowances. For Tier A members, actual salary or wages received. Earnings do not include lump sum payments of unused sick or vacation time. Overtime pay for Classified Tier A members is limited to 10% of regular pay.

#### Final Average Monthly Earnings (FAME)

One-twelfth of average annual Earnings during the two highest paid years of Creditable Service, not less than the average monthly earnings for the 12 months as of March 8, 2006 for Unclassified Tier A members

Effective September 30, 2010 averaging period is five years except for members who are less than five years away from normal retirement eligibility. Members who are eligible for normal retirement within in two years or less as of September 30, 2010 will have average earnings of two years. Members who are eligible for normal retirement in within three years as of September 30, 2010 will have average earnings of three years. Members who are eligible for normal retirement within four years as of September 30, 2010 will have average earnings of four years.

#### **Normal Retirement**

Eligibility

Age 50 and five years of Creditable Service for those in Tier A

Age 55 and five years of Creditable Service for those in Tier B

Age 55 with 30 years of service or age 62 with 5 years of service for

those in Tier C

Benefit

3% of FAME multiplied years of Creditable Service with the total not to exceed 80% of FAME. There is a 90% cap for certain Tier A members.

2.5% of FAME multiplied years of Creditable Service with the total not to exceed 80% of FAME for Tier C members.

Form of Benefit

50% joint and survivor annuity payable only to the spouse or, if no spouse, to the surviving children until age 21; other options are also available. Spouse's benefits cease upon remarriage.

Life annuity for Tier C members

COLA

2.5% for Tier A and Tier B members; 1.5% for Tier C members

**Early Retirement** 

Eligibility Tier B members of the General Plan whose total of age plus service is

75, not earlier than age 50

Tier C members whose total of age plus service is 75, not earlier than

age 55

Benefit Accrued pension actuarially reduced for number of years by which

Early Retirement Date precedes Normal Retirement Date.

Form of Benefit 50% joint and survivor annuity payable only to the spouse or, if no

spouse, to the surviving children until age 21; other options are also

available. Spouse's benefits cease upon remarriage.

Life annuity for Tier C members

COLA 2.5% for Tier A and Tier B members; 1.5% for Tier C members

**Delayed Retirement** 

Eligibility Any time after the Normal Retirement Date.

Benefit Calculated in the same manner as the Normal Retirement Benefit but

using the FAME and Creditable Service as of the actual retirement date.

**Form of Benefit** 50% joint and survivor annuity payable only to the spouse or, if no spouse, to the surviving children until age 21; other options are also

available. Spouse's benefits cease upon remarriage.

Life annuity for Tier C members

**COLA** 2.5% for Tier A and Tier B members; 1.5% for Tier C members

**Disability Benefits** 

**Eligibility** A total and permanent disability which renders a member incapacitated

for the further performance of duty. Five years of Creditable Service is

also required unless the disability is service-connected.

Benefit

Ordinary Disability: Accrued retirement benefit, without reduction,

with a minimum of 35% of FAME.

Service-Connected Disability: Accrued retirement benefit without reduction, with a minimum of 65% of FAME; 75% of FAME minimum

for General Tier A members.

Such amounts are reduced by workers' compensation benefits and, in certain cases, earned income will be considered in offsetting the benefit. The period of disability shall be included in Creditable Service for purposes of computing normal retirement benefits when a disability

retiree reaches normal retirement age.

Form of Benefit

50% joint and survivor annuity payable only to the spouse or, if no spouse, to the surviving children until age 21; other options are also available. Spouse's benefits cease upon remarriage.

Life annuity for Tier C members

**COLA** 

2.5% for Tier A and Tier B members; 1.5% for Tier C members

#### **Preretirement Death Benefits**

For a member who has at least three years of Creditable Service but who dies before commencement of retirement benefits, a monthly benefit is payable to the spouse or, if no spouse, to the children until age 21. The benefit is equal to 50% of the accrued normal retirement benefit without reduction with the result being a minimum of 30% of FAME and a maximum of 40% of FAME for General members.

#### **Termination Benefits**

Any member who terminates employment and does not request a refund of his own contributions and has completed at least five years of Creditable Service will be eligible to receive his accrued benefit upon reaching his normal retirement age.

#### **Contributions**

Tier A Members

12% of Earnings.

Tier B and Tier C Members

10% of Earnings.

Employees who have reached the applicable benefit accrual cap (90% for General Tier A employees and 80% for all others) but have not yet reached retirement age will continue to contribute to the pension Plan, but only on the amount by which pay increases

after reaching the cap

From the City

The amount necessary to fund the Plan properly according to the

Plan's actuary.

#### **Deferred Retirement Option Plan (DROP)**

Eligibility

Members who are eligible for Normal Retirement

Benefit

The member's Credited Service and AFC are frozen upon entry into the DROP. The monthly retirement benefit as described under Normal Retirement is calculated based upon the frozen Credited

Service and AFC.

Maximum

**DROP** Period

36 months for Tier A and Tier B members; 60 months for Tier C

members

Interest

Credited

The investment return is determined by the self-directed

investments.

**Normal Form** 

of Benefit

Lump Sum

COLA

None

#### **Changes Since Last Valuation**

The have been no changes since the last valuation.